

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057256

Luminaire Tested: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057256
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5, G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 500 LUMENS, FLOOD OPTIC (38-DEGREES)
UPLIGHT 500 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

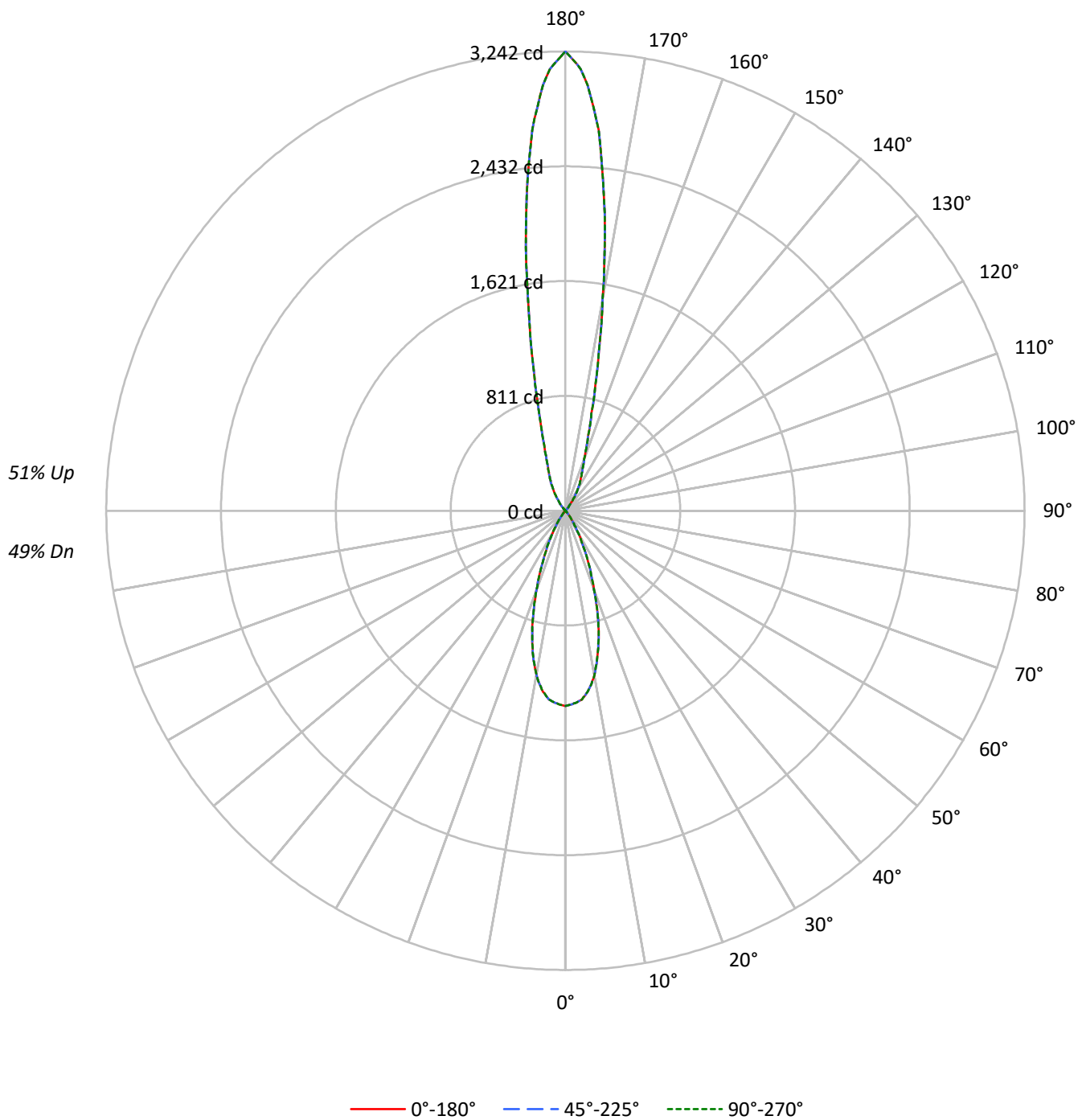
Lumens per Lamp: N/A
Luminaire Lumens: 1209.1 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1057256

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057256

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83		68	68	68		55
1	100	97	94	92	92	90	87	85	76	75	73		64	63	62		53
2	94	89	84	80	87	82	79	75	71	68	66		60	59	57		51
3	88	81	76	72	82	76	71	68	66	63	60		57	55	53		48
4	83	75	69	65	77	70	65	61	62	58	55		54	51	49		46
5	78	70	63	59	73	66	60	56	58	54	51		51	48	46		44
6	74	65	59	54	69	61	56	52	55	51	48		48	46	43		43
7	70	61	54	50	66	57	52	48	52	48	45		46	43	41		41
8	66	57	51	47	62	54	49	45	49	45	42		44	41	39		39
9	63	54	48	44	59	51	46	42	46	42	40		42	39	37		38
10	60	51	45	41	57	48	43	40	44	40	38		40	37	35		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	888526	888526	888526
5°	864751	864751	864751
10°	770510	770510	770510
15°	604573	604573	604573
20°	407763	407763	407763
25°	245593	245593	245593
30°	132824	132824	132824
35°	56012	56012	56012
40°	18675	18675	18675
45°	8020	8020	8020
50°	4712	4712	4712
55°	3258	3258	3258
60°	2320	2320	2320
65°	1830	1830	1830
70°	1130	1130	1130
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8020 cd/sqm

TEST NUMBER: P1057256

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	10.1
10°-20°	245.7	20.3
20°-30°	161.4	13.3
30°-40°	49.7	4.1
40°-50°	7.9	0.7
50°-60°	2.7	0.2
60°-70°	1.0	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.2	0.0
110°-120°	1.0	0.1
120°-130°	2.0	0.2
130°-140°	8.5	0.7
140°-150°	56.1	4.6
150°-160°	121.7	10.1
160°-170°	211.4	17.5
170°-180°	217.1	18.0
0°-30°	529.5	43.8
0°-40°	579.1	47.9
0°-60°	589.7	48.8
0°-90°	590.9	48.9
90°-120°	1.3	0.1
90°-150°	67.9	5.6
90°-180°	618.0	51.1
0°-180°	1209.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1337	1337	1337	1337	1337	122
15°	906	906	906	906	906	246
25°	345	345	345	345	345	161
35°	71	71	71	71	71	50
45°	9	9	9	9	9	8
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	1	1	1	1	1
125°	2	2	2	2	2	2
135°	8	8	8	8	8	9
145°	86	86	86	86	86	56
155°	263	263	263	263	263	122
165°	714	714	714	714	714	211
175°	2696	2696	2696	2696	2696	217
180°	3242	3242	3242	3242	3242	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.8	1378.8	1378.8	1378.8	1378.8
1°	1372.5	1372.5	1372.5	1372.5	1372.5
2°	1366.2	1366.2	1366.2	1366.2	1366.2
3°	1357.8	1357.8	1357.8	1357.8	1357.8
4°	1347.3	1347.3	1347.3	1347.3	1347.3
5°	1336.8	1336.8	1336.8	1336.8	1336.8
6°	1312.3	1312.3	1312.3	1312.3	1312.3
7°	1287.8	1287.8	1287.8	1287.8	1287.8
8°	1255.9	1255.9	1255.9	1255.9	1255.9
9°	1216.7	1216.7	1216.7	1216.7	1216.7
10°	1177.5	1177.5	1177.5	1177.5	1177.5
11°	1127.5	1127.5	1127.5	1127.5	1127.5
12°	1077.6	1077.6	1077.6	1077.6	1077.6
13°	1023.3	1023.3	1023.3	1023.3	1023.3
14°	964.7	964.7	964.7	964.7	964.7
15°	906.2	906.2	906.2	906.2	906.2
16°	843.8	843.8	843.8	843.8	843.8
17°	781.5	781.5	781.5	781.5	781.5
18°	719.2	719.2	719.2	719.2	719.2
19°	656.9	656.9	656.9	656.9	656.9
20°	594.6	594.6	594.6	594.6	594.6
21°	540.2	540.2	540.2	540.2	540.2
22°	485.8	485.8	485.8	485.8	485.8
23°	436.0	436.0	436.0	436.0	436.0
24°	390.7	390.7	390.7	390.7	390.7
25°	345.4	345.4	345.4	345.4	345.4
26°	309.0	309.0	309.0	309.0	309.0
27°	272.6	272.6	272.6	272.6	272.6
28°	239.2	239.2	239.2	239.2	239.2
29°	208.9	208.9	208.9	208.9	208.9
30°	178.5	178.5	178.5	178.5	178.5
31°	153.8	153.8	153.8	153.8	153.8
32°	129.1	129.1	129.1	129.1	129.1
33°	107.6	107.6	107.6	107.6	107.6
34°	89.4	89.4	89.4	89.4	89.4
35°	71.2	71.2	71.2	71.2	71.2
36°	58.8	58.8	58.8	58.8	58.8
37°	46.4	46.4	46.4	46.4	46.4
38°	36.6	36.6	36.6	36.6	36.6
39°	29.4	29.4	29.4	29.4	29.4
40°	22.2	22.2	22.2	22.2	22.2
41°	18.4	18.4	18.4	18.4	18.4
42°	14.7	14.7	14.7	14.7	14.7
43°	12.0	12.0	12.0	12.0	12.0
44°	10.4	10.4	10.4	10.4	10.4

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	8.8	8.8	8.8	8.8	8.8
46°	7.8	7.8	7.8	7.8	7.8
47°	6.9	6.9	6.9	6.9	6.9
48°	6.1	6.1	6.1	6.1	6.1
49°	5.4	5.4	5.4	5.4	5.4
50°	4.7	4.7	4.7	4.7	4.7
51°	4.2	4.2	4.2	4.2	4.2
52°	3.7	3.7	3.7	3.7	3.7
53°	3.4	3.4	3.4	3.4	3.4
54°	3.2	3.2	3.2	3.2	3.2
55°	2.9	2.9	2.9	2.9	2.9
56°	2.7	2.7	2.7	2.7	2.7
57°	2.5	2.5	2.5	2.5	2.5
58°	2.2	2.2	2.2	2.2	2.2
59°	2.0	2.0	2.0	2.0	2.0
60°	1.8	1.8	1.8	1.8	1.8
61°	1.5	1.5	1.5	1.5	1.5
62°	1.3	1.3	1.3	1.3	1.3
63°	1.2	1.2	1.2	1.2	1.2
64°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
66°	0.9	0.9	0.9	0.9	0.9
67°	0.7	0.7	0.7	0.7	0.7
68°	0.6	0.6	0.6	0.6	0.6
69°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
71°	0.6	0.6	0.6	0.6	0.6
72°	0.6	0.6	0.6	0.6	0.6
73°	0.5	0.5	0.5	0.5	0.5
74°	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
106°	0.2	0.2	0.2	0.2	0.2
107°	0.5	0.5	0.5	0.5	0.5
108°	0.6	0.6	0.6	0.6	0.6
109°	0.6	0.6	0.6	0.6	0.6
110°	0.6	0.6	0.6	0.6	0.6
111°	0.6	0.6	0.6	0.6	0.6
112°	0.6	0.6	0.6	0.6	0.6
113°	0.7	0.7	0.7	0.7	0.7
114°	0.9	0.9	0.9	0.9	0.9
115°	1.2	1.2	1.2	1.2	1.2
116°	1.2	1.2	1.2	1.2	1.2
117°	1.2	1.2	1.2	1.2	1.2
118°	1.3	1.3	1.3	1.3	1.3
119°	1.5	1.5	1.5	1.5	1.5
120°	1.8	1.8	1.8	1.8	1.8
121°	1.8	1.8	1.8	1.8	1.8
122°	1.8	1.8	1.8	1.8	1.8
123°	1.9	1.9	1.9	1.9	1.9
124°	2.1	2.1	2.1	2.1	2.1
125°	2.3	2.3	2.3	2.3	2.3
126°	2.3	2.3	2.3	2.3	2.3
127°	2.3	2.3	2.3	2.3	2.3
128°	2.6	2.6	2.6	2.6	2.6
129°	3.0	3.0	3.0	3.0	3.0
130°	3.5	3.5	3.5	3.5	3.5
131°	4.0	4.0	4.0	4.0	4.0
132°	4.4	4.4	4.4	4.4	4.4
133°	5.4	5.4	5.4	5.4	5.4
134°	6.8	6.8	6.8	6.8	6.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	8.2	8.2	8.2	8.2	8.2
136°	11.2	11.2	11.2	11.2	11.2
137°	14.2	14.2	14.2	14.2	14.2
138°	18.6	18.6	18.6	18.6	18.6
139°	24.2	24.2	24.2	24.2	24.2
140°	29.8	29.8	29.8	29.8	29.8
141°	39.1	39.1	39.1	39.1	39.1
142°	48.4	48.4	48.4	48.4	48.4
143°	59.7	59.7	59.7	59.7	59.7
144°	73.1	73.1	73.1	73.1	73.1
145°	86.4	86.4	86.4	86.4	86.4
146°	102.9	102.9	102.9	102.9	102.9
147°	119.5	119.5	119.5	119.5	119.5
148°	137.0	137.0	137.0	137.0	137.0
149°	155.4	155.4	155.4	155.4	155.4
150°	173.9	173.9	173.9	173.9	173.9
151°	191.6	191.6	191.6	191.6	191.6
152°	209.4	209.4	209.4	209.4	209.4
153°	227.1	227.1	227.1	227.1	227.1
154°	244.8	244.8	244.8	244.8	244.8
155°	262.6	262.6	262.6	262.6	262.6
156°	283.3	283.3	283.3	283.3	283.3
157°	304.1	304.1	304.1	304.1	304.1
158°	329.3	329.3	329.3	329.3	329.3
159°	359.0	359.0	359.0	359.0	359.0
160°	388.6	388.6	388.6	388.6	388.6
161°	436.9	436.9	436.9	436.9	436.9
162°	485.2	485.2	485.2	485.2	485.2
163°	550.2	550.2	550.2	550.2	550.2
164°	631.9	631.9	631.9	631.9	631.9
165°	713.6	713.6	713.6	713.6	713.6
166°	843.8	843.8	843.8	843.8	843.8
167°	974.1	974.1	974.1	974.1	974.1
168°	1135.3	1135.3	1135.3	1135.3	1135.3
169°	1327.7	1327.7	1327.7	1327.7	1327.7
170°	1520.0	1520.0	1520.0	1520.0	1520.0
171°	1761.1	1761.1	1761.1	1761.1	1761.1
172°	2002.2	2002.2	2002.2	2002.2	2002.2
173°	2237.4	2237.4	2237.4	2237.4	2237.4
174°	2466.9	2466.9	2466.9	2466.9	2466.9
175°	2696.3	2696.3	2696.3	2696.3	2696.3
176°	2853.4	2853.4	2853.4	2853.4	2853.4
177°	3010.4	3010.4	3010.4	3010.4	3010.4
178°	3119.7	3119.7	3119.7	3119.7	3119.7
179°	3181.0	3181.0	3181.0	3181.0	3181.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3242.4	3242.4	3242.4	3242.4	3242.4

TEST NUMBER: P1057256

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-10L-FL-SP-U-S-X-X-BLAK

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.09	0.69	2.00	0.00	0.00	0.09	0.69	2.00
	3H	0.00	0.00	0.32	0.85	2.18	0.00	0.00	0.32	0.85	2.18
	4H	0.00	0.00	0.25	0.74	2.08	0.00	0.00	0.25	0.74	2.08
	6H	0.00	0.00	0.14	0.59	1.93	0.00	0.00	0.14	0.59	1.93
	8H	0.00	0.00	0.08	0.51	1.85	0.00	0.00	0.08	0.51	1.85
	12H	0.00	0.00	0.02	0.42	1.78	0.00	0.00	0.02	0.42	1.78
4H	2H	0.00	0.00	0.21	0.70	2.04	0.00	0.00	0.21	0.70	2.04
	3H	0.00	0.00	0.60	1.02	2.37	0.00	0.00	0.60	1.02	2.37
	4H	0.00	0.00	0.51	0.89	2.26	0.00	0.00	0.51	0.89	2.26
	6H	0.00	0.00	0.40	0.73	2.10	0.00	0.00	0.40	0.73	2.10
	8H	0.00	0.00	0.34	0.64	2.01	0.00	0.00	0.34	0.64	2.01
	12H	0.00	0.00	0.27	0.54	1.92	0.00	0.00	0.27	0.54	1.92
8H	4H	0.00	0.00	0.38	0.68	2.06	0.00	0.00	0.38	0.68	2.06
	6H	0.00	0.00	0.28	0.54	1.92	0.00	0.00	0.28	0.54	1.92
	8H	0.00	0.00	0.23	0.43	1.83	0.00	0.00	0.23	0.43	1.83
	12H	0.00	0.00	0.16	0.33	1.77	0.00	0.00	0.16	0.33	1.77
12H	4H	0.00	0.00	0.32	0.59	1.97	0.00	0.00	0.32	0.59	1.97
	6H	0.00	0.00	0.23	0.43	1.83	0.00	0.00	0.23	0.43	1.83
	8H	0.00	0.00	0.16	0.33	1.77	0.00	0.00	0.16	0.33	1.77

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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